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	Application No.	Applicant(s)
Notice of Allowability	10/084,198	KIM ET AL.
	Examiner	Art Unit
	Sylvia R MacArthur	1763
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
 This communication is responsive to the election of 10/15/2 The allowed claim(s) is/are 1-15. The drawings filed on 28 February 2002 are accepted by the Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: Certified copies of the priority documents have 	ne Examiner. der 35 U.S.C. § 119(a)-(d) or (f).	
Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specifica (a) The translation of the foreign language provisional approximately acknowledgment is made of a claim for domestic priority un in the first sentence of the specification or in an Application	tion or in an Application Data Sheet. oplication has been received. der 35 U.S.C. §§ 120 and/or 121 sir	. 37 CFR 1.78.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE		
7. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER's s reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF ion is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperso 1) ☐ hereto or 2) ☐ to Paper No 	on's Patent Drawing Review (PTO-9	
(b) \square including changes required by the proposed drawing co		en approved by the Examiner.
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the drawin e margin according to 37 CFR 1.121(d	gs in the front (not the back) of l).
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR THE 	it of BIOLOGICAL MATERIAL m HE DEPOSIT OF BIOLOGICAL MAT	iust be submitted. Note the ERIAL.
Attachment(s)		
1⊠ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pat	ent Application (PTO-152)
2 Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Summary (F	² TO-413), Paper No. <u>1</u> .
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No	' 7⊠ Examiner's Amendme	nt/Comment
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statement 9⊡ Other	of Reasons for Allowance
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1. Applicant's election without traverse of claims 1-15 mailed 10/15/2003is acknowledged.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eugene Lee on 12/1/03.

- 3. The application has been amended as follows:
- 6. An apparatus for supplying a chemical solution to a chemical injection part in a semiconductor manufacturing process, comprising:
- a plurality of chemical solution supply sources, each source supplying a different chemical solution;
- a plurality of feed lines into which the chemical solutions are injected from the chemical solution supply sources to the chemical injection part by a pressure of the chemical solution supply sources; and

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a means for measuring/controlling flow rates of the chemical solutions supplied to the chemical solution injection part, the means for measuring/controlling flow rates being mounted in each of the feed lines.

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wherein each of the plurality of feed lines further comprises

a recycle line for preventing coagulation of the chemical solution, the recycle line being connected to an associated chemical solution supply source; and

a branch line branching from the recycle line, the branch line being connected to an associated chemical solution injection part.

- 4. Claim 8, 16, and 17 has been cancelled.
- 5. The dependencies of claims 9 and 10 has been changed:

Claim 9, line 1 delete"8" and insert - - 6 - -

Claim 10, line 1 delete "9" and insert - - 8--

- 6. The following is an examiner's statement of reasons for allowance:
 - The prior art of record fails to teach or fairly suggest a recycle line as claimed in claims 1 and 6 of the claimed invention.
- 7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R MacArthur whose telephone number is 703-306-5690. The examiner can normally be reached on M-F during the core hours of 8 a.m. and 2 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Mills can be reached on 703-308-1633. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Sylvia R MacArthur Patent Examiner Art Unit 1763

December 2, 2003

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